Applicant: Martin Fangmeier 10/550,320

Application No.:

Amendments to the Claims: Begin this section on a new page.

This listing of claims will replace all prior versions, and listings, of claims in

the application:

Listing of Claims:

Backflow preventer (1), which can be 1. (Currently amended)

inserted into a gas or liquid line (2), comprising a closing body (3) embodied as a

hollow body open on a drainage side, which limits a passage channel (5) between

the closing body and a central closing body counterpart (4), the closing body (3)

being displaceable by a flow medium flowing through the passage channel (5) in a

flow direction (Pf 1) from a closed position, contacting the closing body counterpart

(4) in a sealing manner, into an open position against a restoring force of an

elasticity and/or a stability of the closing body, the closing body (3), in an unstressed

closed position, initially contacts only a partial or edge region (6) of the closing body

counterpart (4) with a partial region embodied as a sealing lip (12) of the closing

body and can additionally be pressed against the closing body counterpart (4) with a

partial region of a longitudinal extension thereof under a pressure of the fluid

flowing against the flow direction (Pf 1), opening a downstream buffer volume for

back flowing fluid, the closing body (3) is located at a fixed position, at a peripheral

edge (10) thereof, relative to the closing body counterpart (4) in the backflow

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preventer in the gas or liquid line, and the central closing body counterpart (4) is

connected to a through flow plate (7).

2. (Previously presented) A backflow preventer according to claim 1,

wherein a free edge region of the sealing lip (12), which contacts the closing body

counterpart (4), is provided with an edge reinforcement (13) to compensate against

expansion of an edge region circumference.

3. (Previously presented) A backflow preventer according to claim 2,

wherein the edge reinforcement (13) is embodied as an annular cross-sectional

expansion or a cross-sectional enlargement of the closing body (3).

4. (Previously presented) A backflow preventer according to claim 1,

wherein the closing body counterpart (4) has a rounded end section (6) and is

formed in a drop shaped manner.

5. (Previously presented) A backflow preventer according to claim 1,

wherein the through flow plate (7) has openings (9) which open into the passage

channel (5).

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6. (Previously presented) A backflow preventer according to claim 5, wherein the through flow plate (7) in an area of the passage channel (5) comprises a sieve or perforated plate with honeycomb-shaped openings (9).

7. (Previously presented) A backflow preventer according to claim 5, wherein the through flow plate (7) and the closing body counterpart (4) are connected to one another in one piece.

8. (Currently amended) A backflow preventer, which can be inserted into a gas or liquid line (2), comprising a closing body (3) embodied as a hollow body open on a drainage side, which limits a passage channel (5) between the closing body and a central closing body counterpart (4), the closing body (3) being displaceable by a flow medium flowing through the passage channel (5) in a flow direction (Pf 1) from a closed position, contacting the closing body counterpart (4) in a sealing manner, into an open position against a restoring force of an elasticity and/or a stability of the closing body, the closing body (3), in an unstressed closed position, initially contacts only a partial or edge region (6) of the closing body counterpart (4) with a partial region embodied as a sealing lip (12) of the closing body and can additionally be pressed against the closing body counterpart (4) with a partial region of a longitudinal extension thereof under a pressure of the fluid

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flowing against the flow direction (Pf 1), opening a downstream buffer volume for

back flowing fluid, the closing body (3) is located at a fixed position, at a peripheral

edge (10) thereof, relative to the closing body counterpart (4) in the backflow

preventer in the gas or liquid line, and the central closing body counterpart (4) is

connected to a through flow plate (7) having openings (9) which open into the

passage channel (5), wherein the closing body (3) is held at the exterior

circumference of the through flow plate (7).

9. (Previously presented) A backflow preventer according to claim 5,

wherein the closing body (3) includes a closing body section held at the through flow

plate (7) that contacts an interior circumference of the gas or liquid line (2) in a

sealing manner.

10. (Previously presented) A backflow preventer according to claim 9,

wherein an upstream face edge region of the closing body (3), contacting the gas or

liquid line (2) in a sealing manner, comprises an annular cross-sectional

enlargement (10).

11. (Currently amended) A backflow preventer, which can be inserted

into a gas or liquid line (2), comprising a closing body (3) embodied as a hollow body

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open on a drainage side, which limits a passage channel (5) between the closing body and a central closing body counterpart (4), the closing body (3) includes a closing body section held at the through flow plate (7) that contacts an interior circumference of the gas or liquid line (2), an upstream face edge region of the closing body (3) contacts the gas or liquid line (2) in a sealing manner and comprises an annular cross-sectional enlargement (10), the closing body (3) is displaceable by a flow medium flowing through the passage channel (5) in a flow direction (Pf 1) from a closed position, contacting the closing body counterpart (4) in a sealing manner, into an open position against a restoring force of an elasticity and/or a stability of the closing body, the closing body (3), in an unstressed closed position, initially contacts only a partial or edge region (6) of the closing body counterpart (4) with a partial region embodied as a sealing lip (12) of the closing body and can additionally be pressed against the closing body counterpart (4) with a partial region of a longitudinal extension thereof under a pressure of the fluid flowing against the flow direction (Pf 1), opening a downstream buffer volume for back flowing fluid, the closing body (3) is located at a fixed position, at a peripheral edge (10) thereof, relative to the closing body counterpart (4) in the backflow preventer in the gas or liquid line, and the central closing body counterpart (4) is connected to a through flow plate (7) having openings (9) which open into the passage channel (5) wherein the closing body (3) is held with the cross-sectional enlargement in a

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fastening groove (11) provided in an exterior circumference of the through flow plate

(7).

12. (Previously presented) A backflow preventer according to claim 5,

wherein the backflow preventer (1) is formed in two pieces and comprises the

closing body (3), on the one hand, and the closing body counterpart (4), on the other

hand, with the through flow plate (7) connected thereto in one piece.

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